

FILE 'BIOSIS, MEDLINE, EMBASE, EMBAL, SCISEARCH, BIOTECHDS, CAPLUS'  
ENTERED AT 15:26:23 ON 04 AUG 2003

L1 43 S (**EBV?** OR (**EPSTEIN(1W)BARR(1W)VIRUS**)) AND ((**VCA (1W)**  
**P18**) OR (  
L2 21 S L1 AND (**BFRF3** OR **BDRF1**)  
L3 12 DUP REM L1 (31 DUPLICATES REMOVED)  
L4 22 S L1 NOT L2  
L5 6 DUP REM L4 (16 DUPLICATES REMOVED)

BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN  
ACCESSION NUMBER: 1994-00244 BIOTECHDS

TITLE: Monoclonal antibody against **Epstein-Barr**  
**virus** recombinant **VCA-p18** or  
**VCA-p40** protein antigen;  
and anti-idiotypic antibody; **EBV** detection using  
DNA probe

PATENT ASSIGNEE: Akzo

PATENT INFO: AU 9335152 16 Sep 1993

APPLICATION INFO: AU 1993-35152 12 Mar 1993

PRIORITY INFO: EP 1992-200721 13 Mar 1992

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: WPI: 1993-345368 [44]

TI Monoclonal antibody against **Epstein-Barr**  
**virus** recombinant **VCA-p18** or **VCA-**  
**p40** protein antigen;

and anti-idiotypic antibody; **EBV** detection using DNA probe

AB The following are claimed: (A) a peptide (I) immunochemically reactive  
with antibodies against **Epstein-Barr virus**  
(**EBV**) comprising at least part of the **VCA-p18**  
or **VCA-p40** protein encoded within the **EBV**  
open reading frames **BFRF3** and **Bdrf1**, respectively, or their fragments;  
(B) a nucleic acid sequence encoding (I); (C) a nucleic. . .  
transformed or transfected with (D); (F) an antibody to (I); (G) a  
monoclonal antibody (MAb) having the same reactivity to **VCA-**  
**p18** as MAb **EBV.OT15E** or **EBV.OT15I** produced by  
the rat-mouse hybridoma cell lines ECACC 93020413 and 93020412,  
respectively, and as MAb **EBV.OT41A** produced by ECACC 93020414;  
(H) an immortalized cell line capable of producing the MAb of (G); and  
(I) an anti-idiotypic antibody reactive with the MAb of (F). **EBV**  
can be detected in samples using the MAb or immunochemical reagents.  
**EBV** nucleic acid sequences can be amplified using the nucleic  
acids of (B) or (C) as DNA primers. (62pp)

CT **EPSTEIN-BARR VIRUS RECOMBINANT VCA**  
**-P18, VCA-P40 PROTEIN ANTIGEN PREP.**,

L5 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1995:713826 CAPLUS  
 DOCUMENT NUMBER: 123:110142  
 TITLE: Diagnostic reagents for the detection of antibodies to  
           **Epstein Barr Virus**  
 INVENTOR(S): Middeldorp, Jaap Michiel; Van Grunsven, Wouterus  
                   Marinus  
 PATENT ASSIGNEE(S): Akzo Nobel N.V., Neth.; Biomerieux BV  
 SOURCE: Eur. Pat. Appl., 28 pp.  
           CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 649904	A1	19950426	EP 1994-202598	19940909
EP 649904	B1	20030122		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 231556	E	20030215	AT 1994-202598	19940909
CA 2131874	AA	19950315	CA 1994-2131874	19940912
FI 9404225	A	19950315	FI 1994-4225	19940913
AU 9472956	A1	19950330	AU 1994-72956	19940913
AU 679545	B2	19970703		
ZA 9407061	A	19950427	ZA 1994-7061	19940913
JP 07209302	A2	19950811	JP 1994-220488	19940914
US 5827646	A	19981027	US 1994-306078	19940914
PRIORITY APPLN. INFO.:			EP 1993-202659	A 19930914

TI Diagnostic reagents for the detection of antibodies to **Epstein  
 Barr Virus**

AB A diagnostic reagent for the detection of antibodies against  
**Epstein Barr Virus** is disclosed. The  
 diagnostic reagent comprises a combination of at least part of an  
**EBV** structural protein, preferably a viral capsid antigen (**VCA**) or  
 a membrane antigen (**MA**), and at least part of an **Epstein Barr** nuclear  
 antigen (**EBNA**). Preferably, the **VCA**-protein is **VCA-p18**  
 protein, the **MA**-protein is **MA-gp350/220** protein and the **EBNA**-protein is  
**EBNA-1** protein. It has been found that the combination of a **VCA**-protein  
 or a **MA**-protein, and an **EBNA** protein, into a single diagnostic assay  
 yields an **EBV**-antibody detection method with greater sensitivity  
 and accuracy than current methods.

ST diagnosis **Epstein Barr virus** antibody